

Figure - 1

Figure - 2

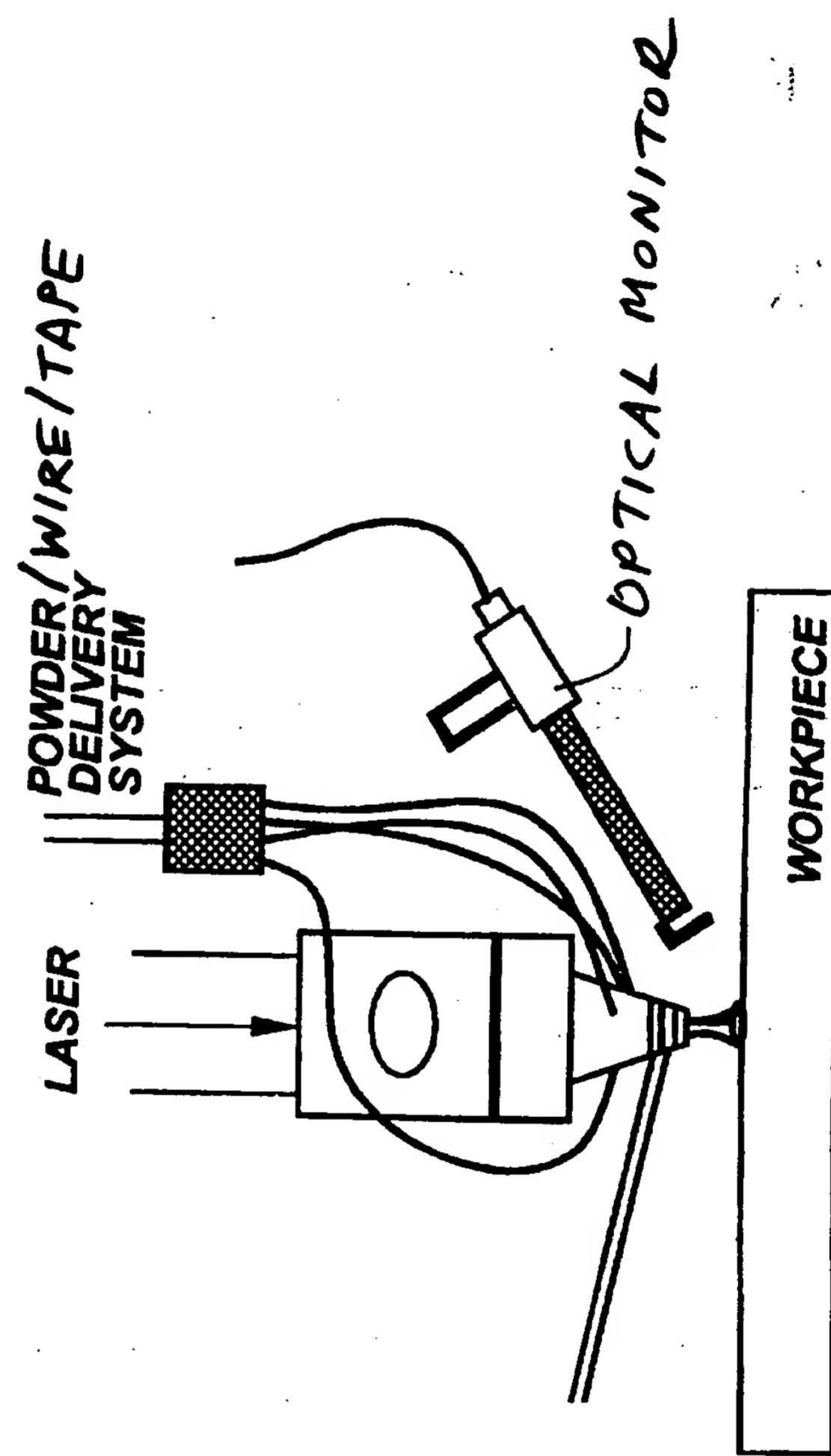
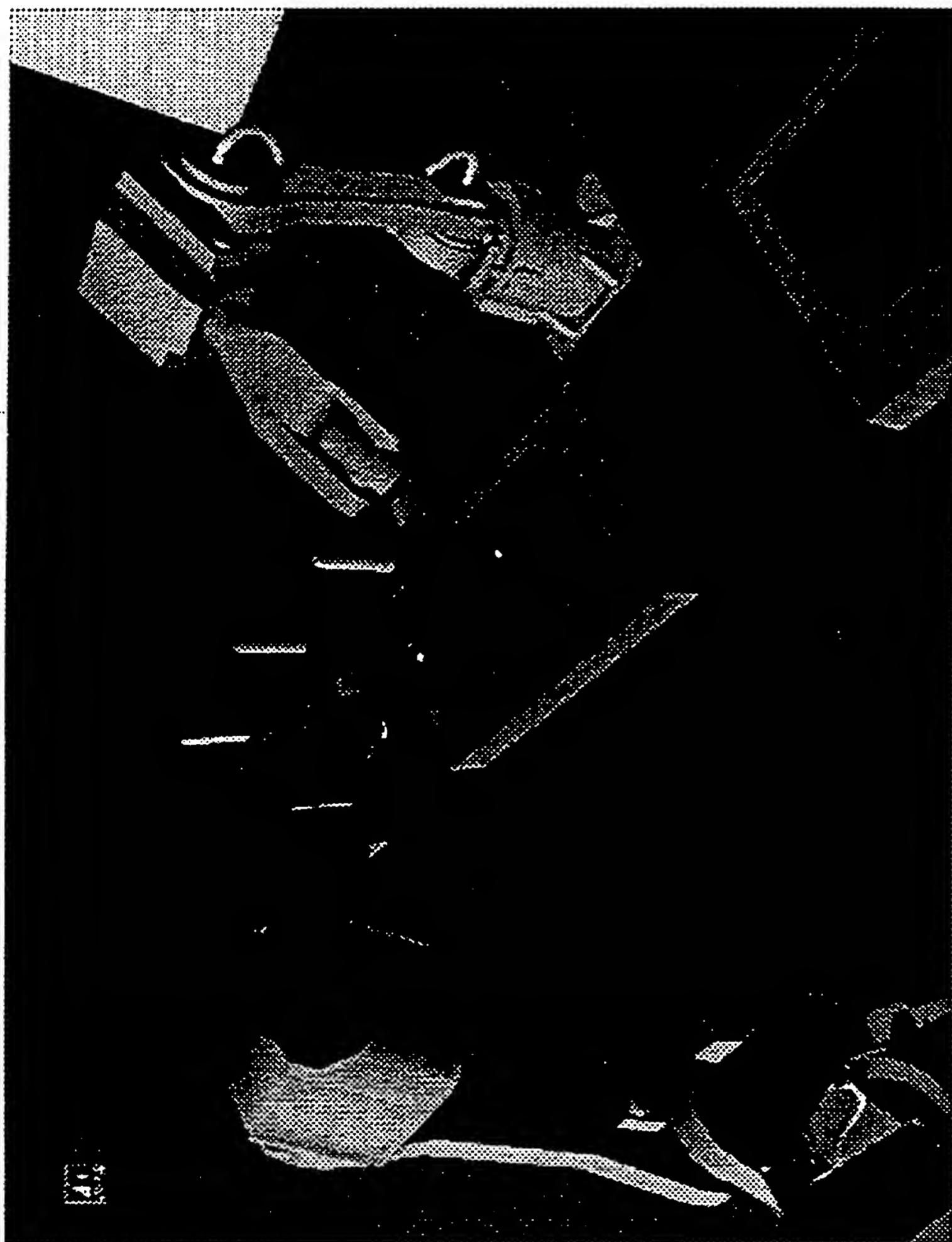


FIGURE 3



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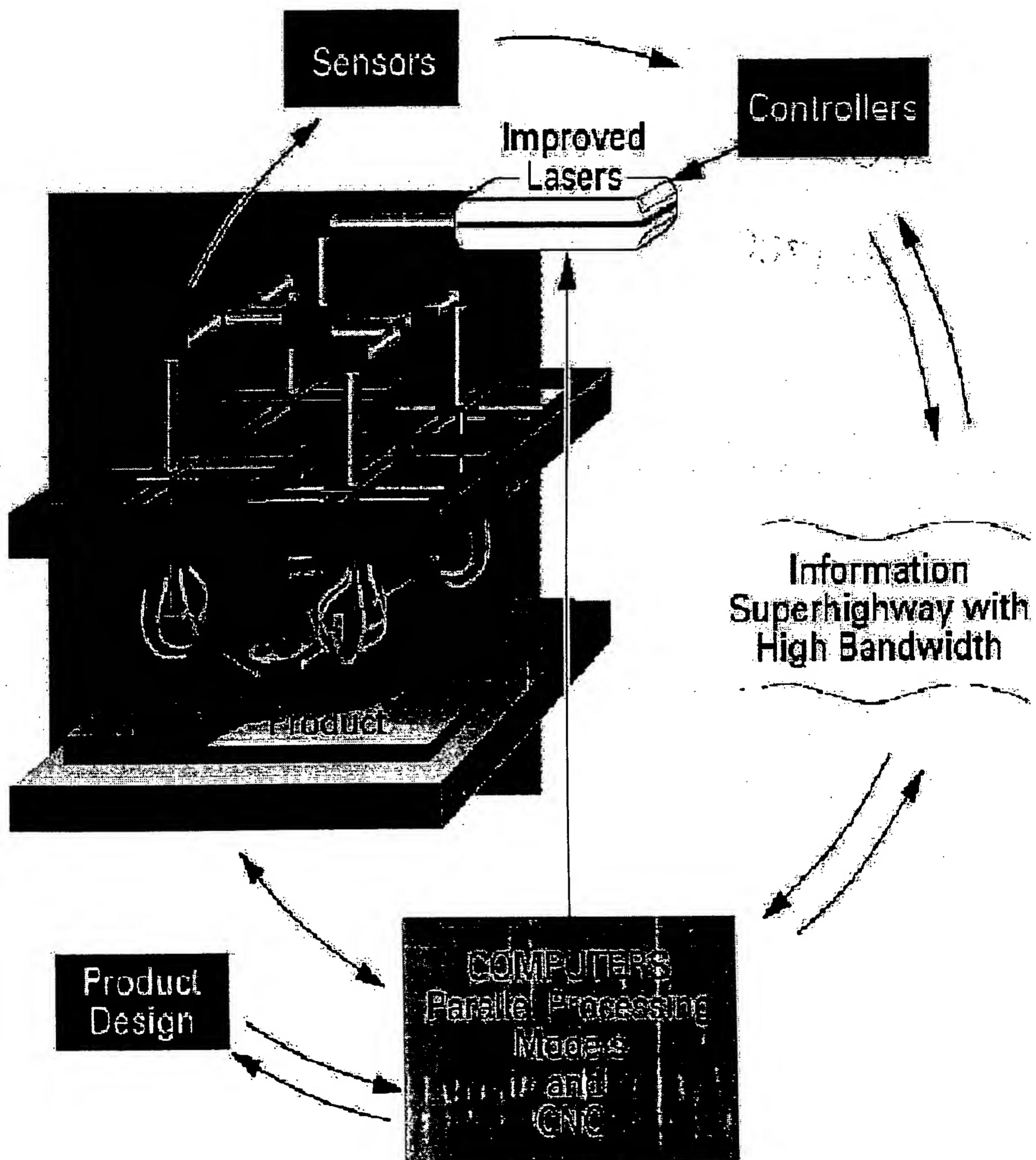


FIGURE 4

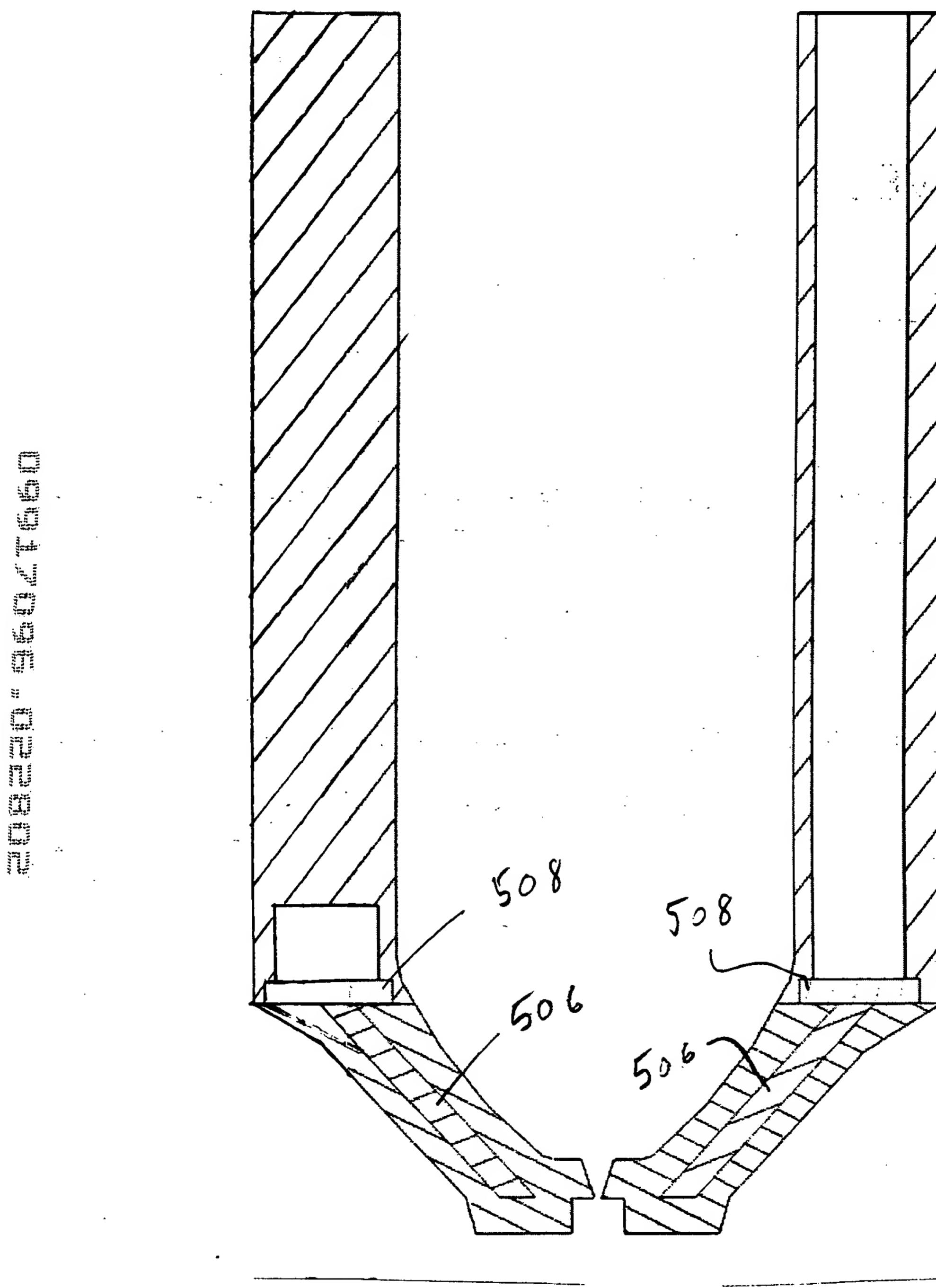


FIGURE 5A

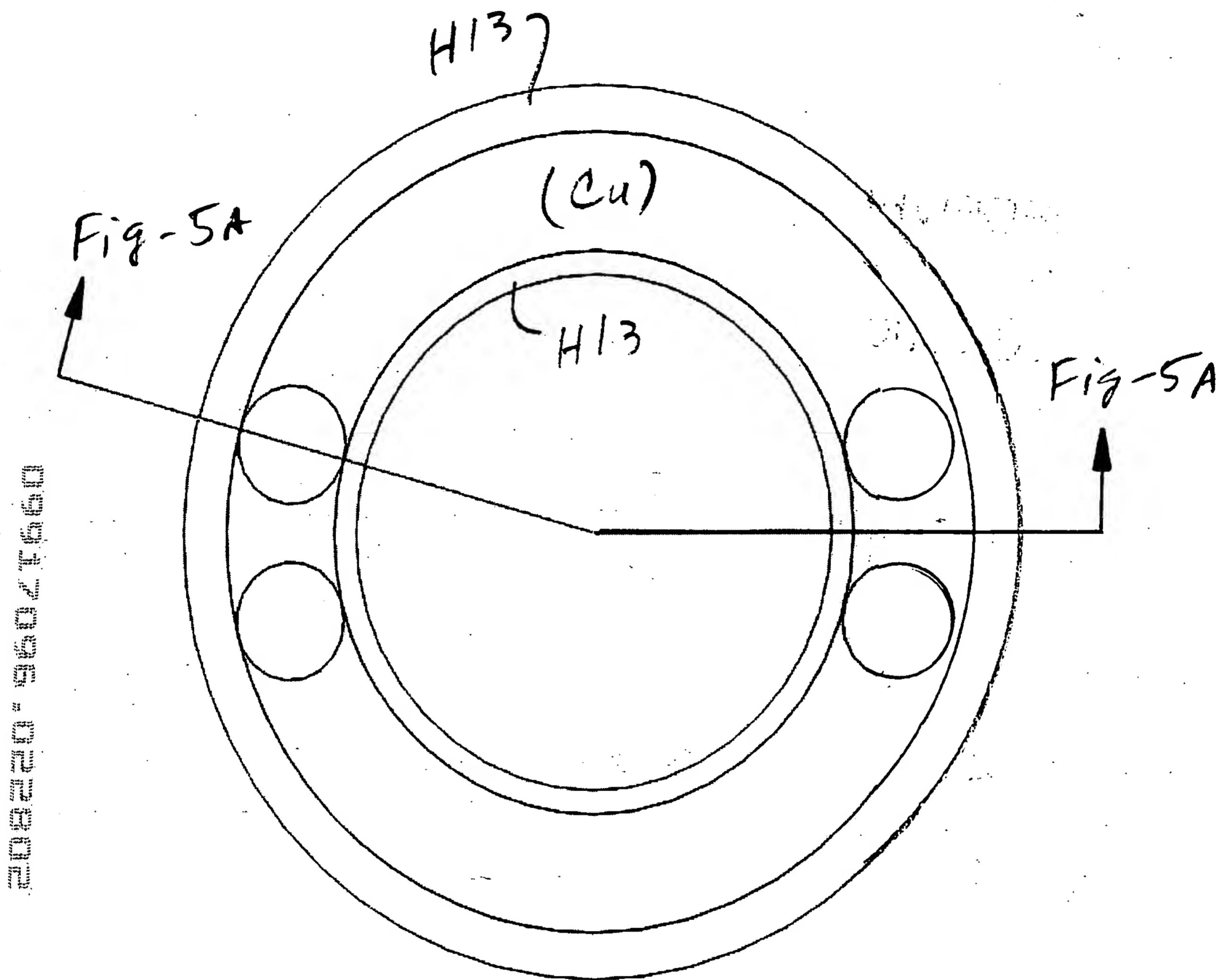


FIGURE 5B

Conventional
Drilled Cooling
Channels
(DCC)

FIGURE 6A

Conformal
Cooling
Channels
(CCC)

Re-design of actual
automotive fuse box cover
to reduce molding cycle
times using CoolMold
Technology

FIGURE 6B

Comparative Analysis - Core Heating Time [70 deg.F - 350 deg.F]

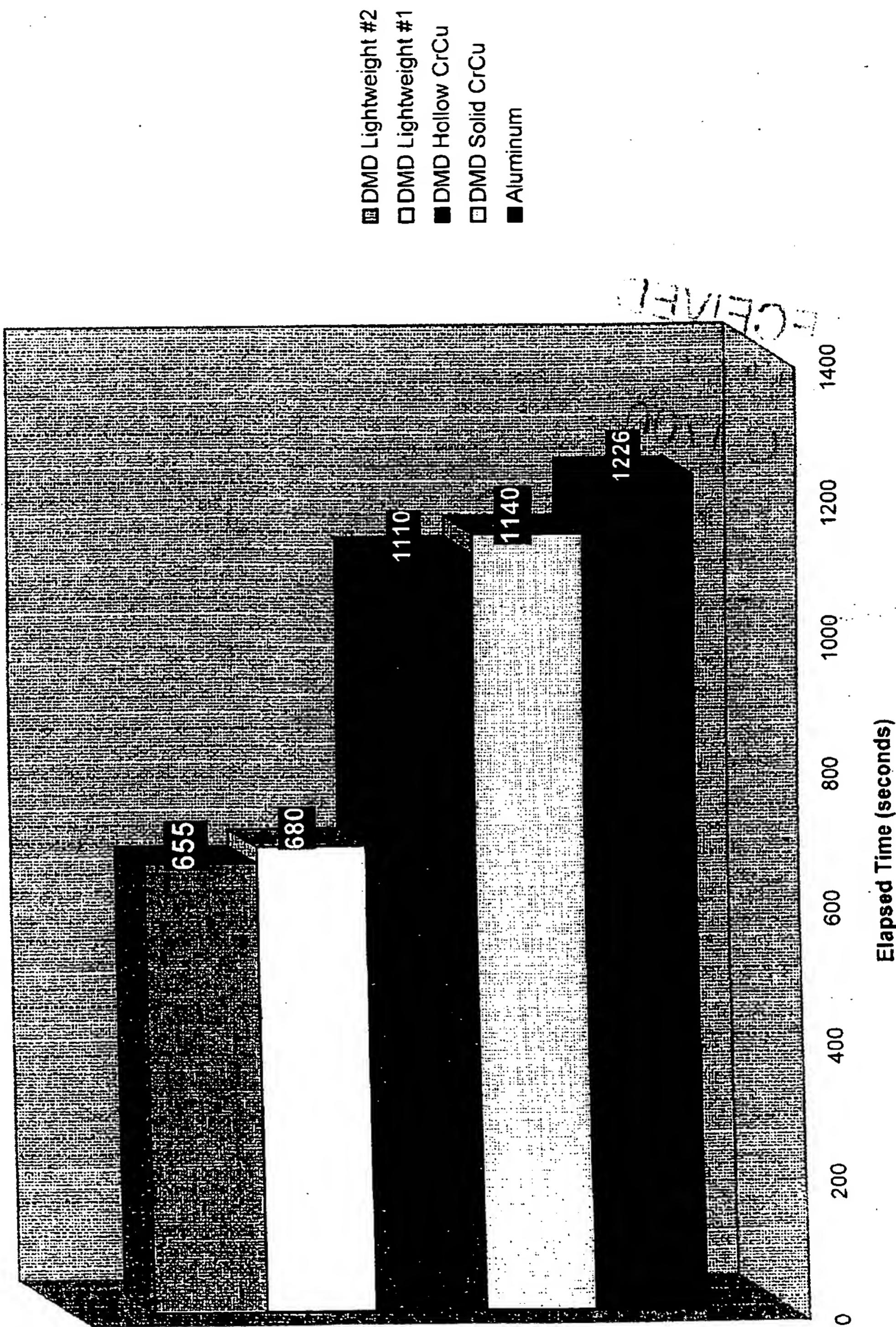


FIGURE 7

Comparative Analysis - Cavity Heating Time [70 deg.F - 350 deg.F]

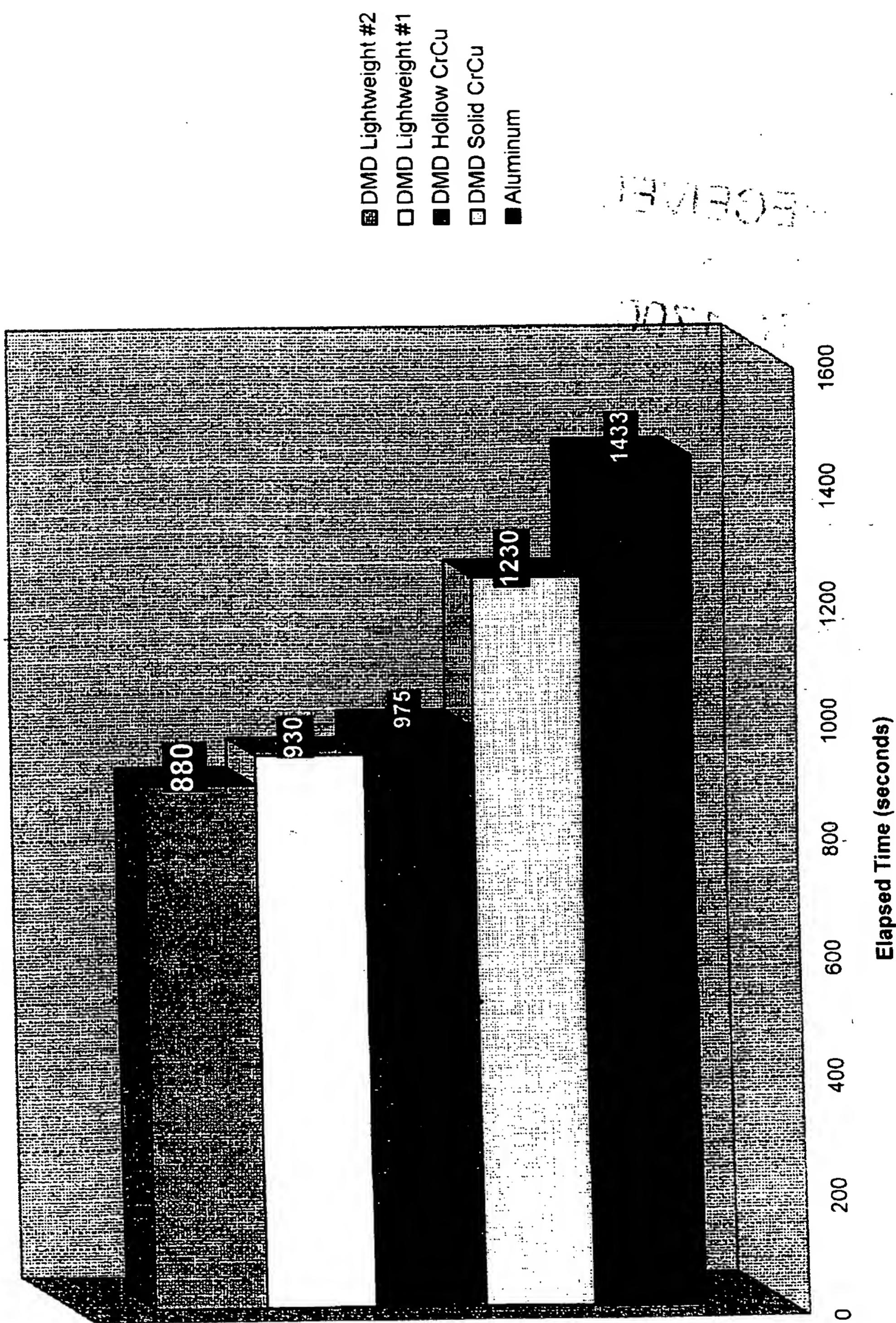


FIGURE 8

TEST 2-1 [DMD Hollow vs. Aluminum]

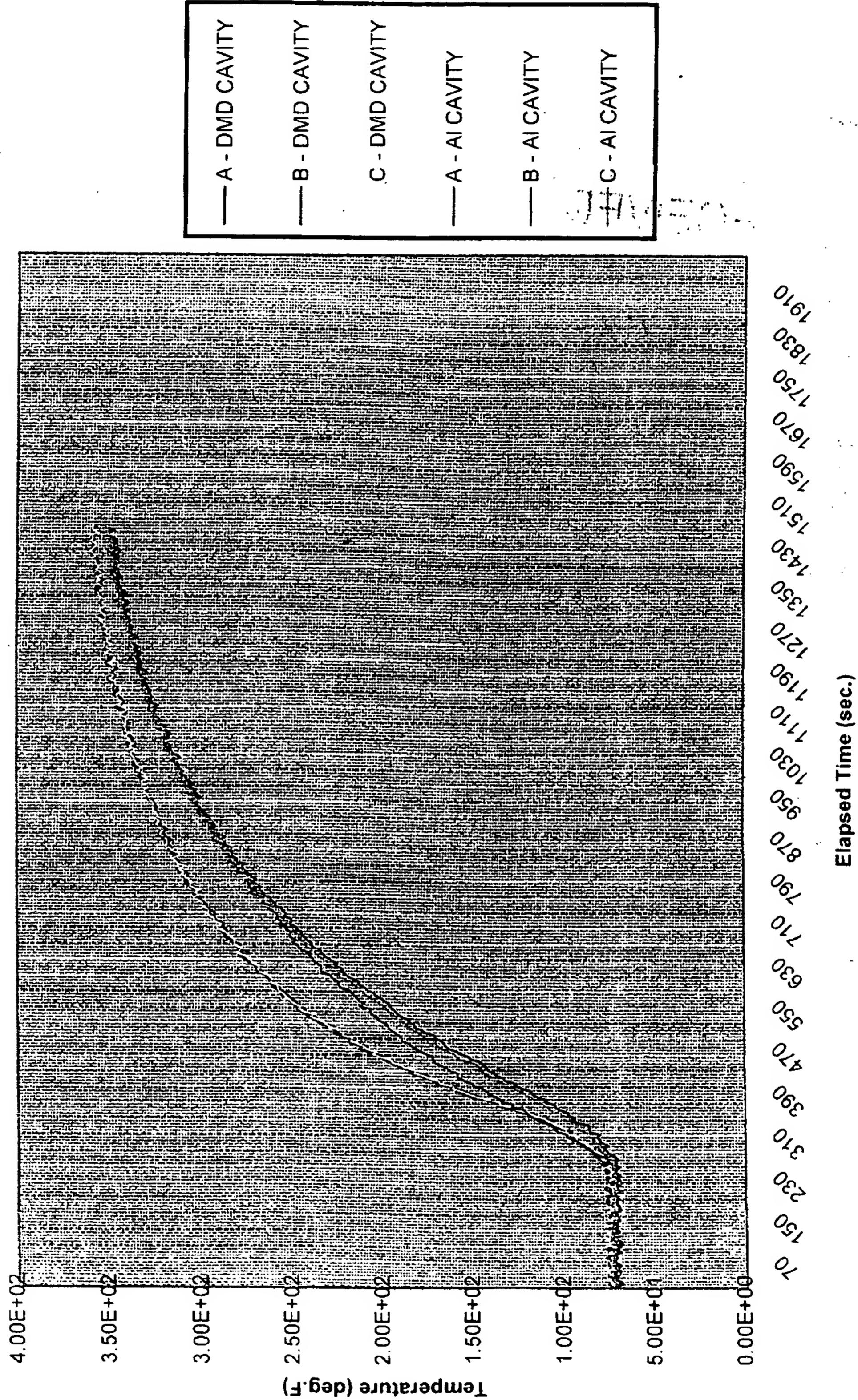


FIGURE 9

TEST 2-1 [DMD Hollow vs. Aluminum]

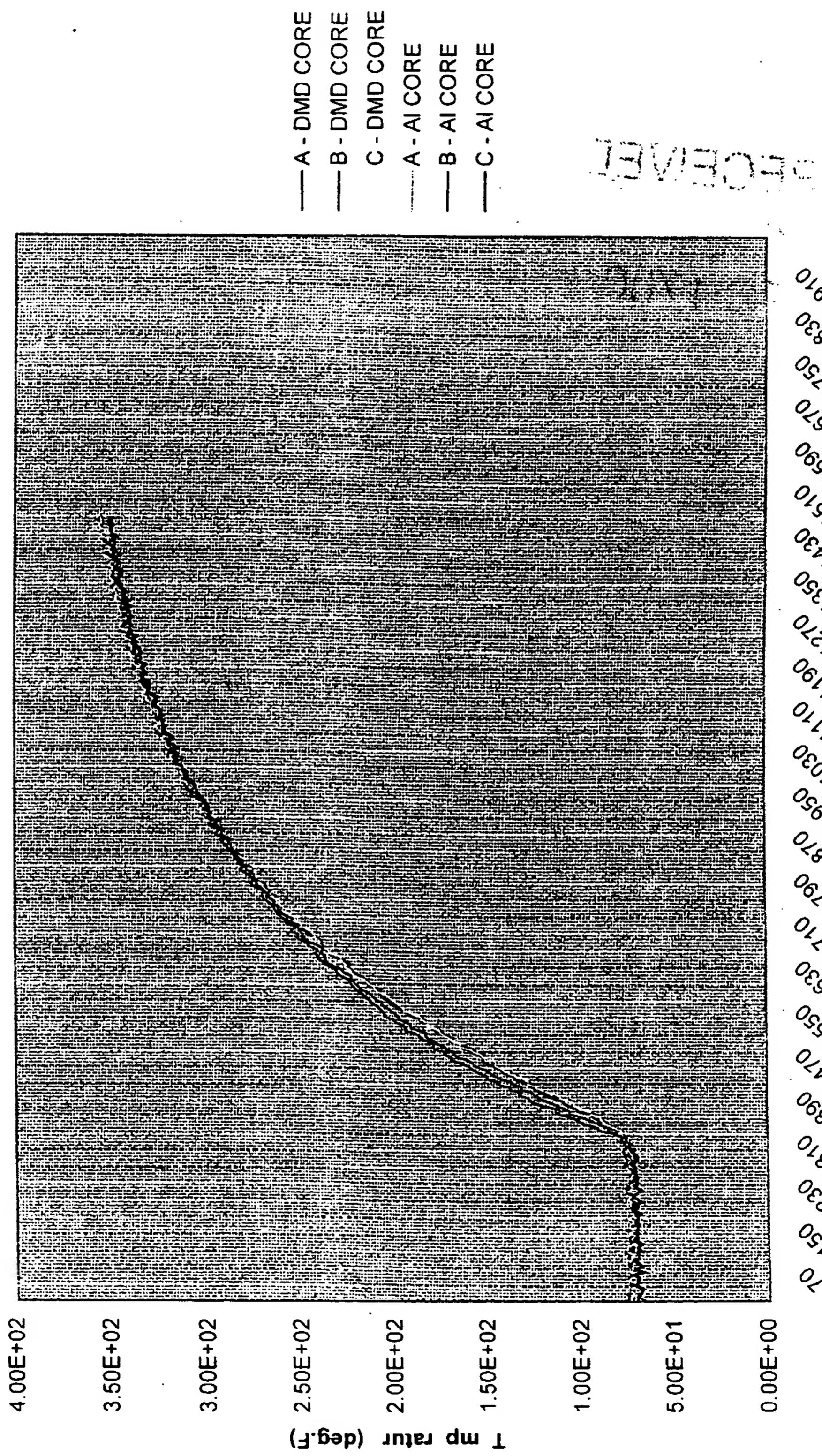


FIGURE 10

TEST 3-2 [DMD Light Wt.#1 vs. Aluminum]

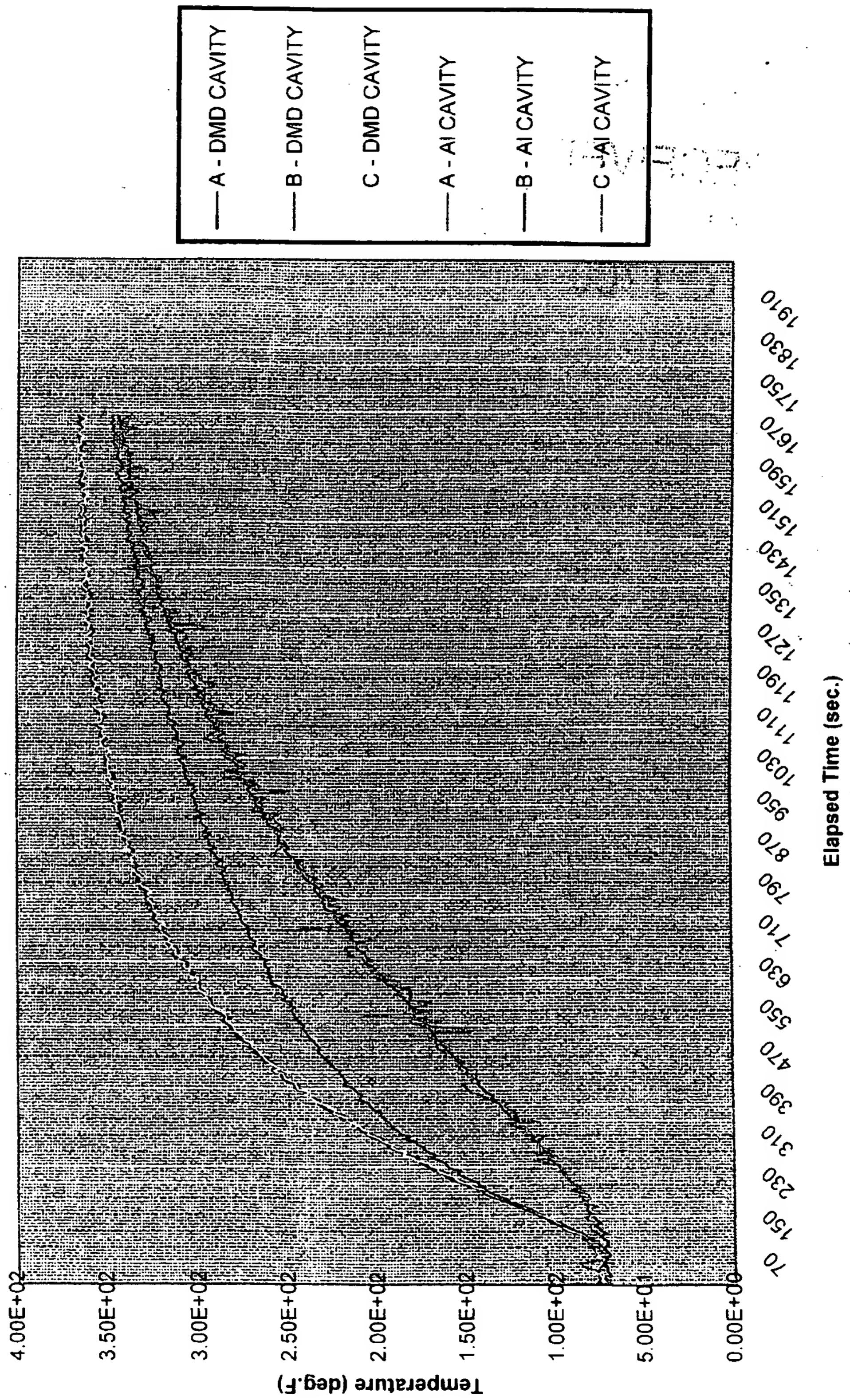
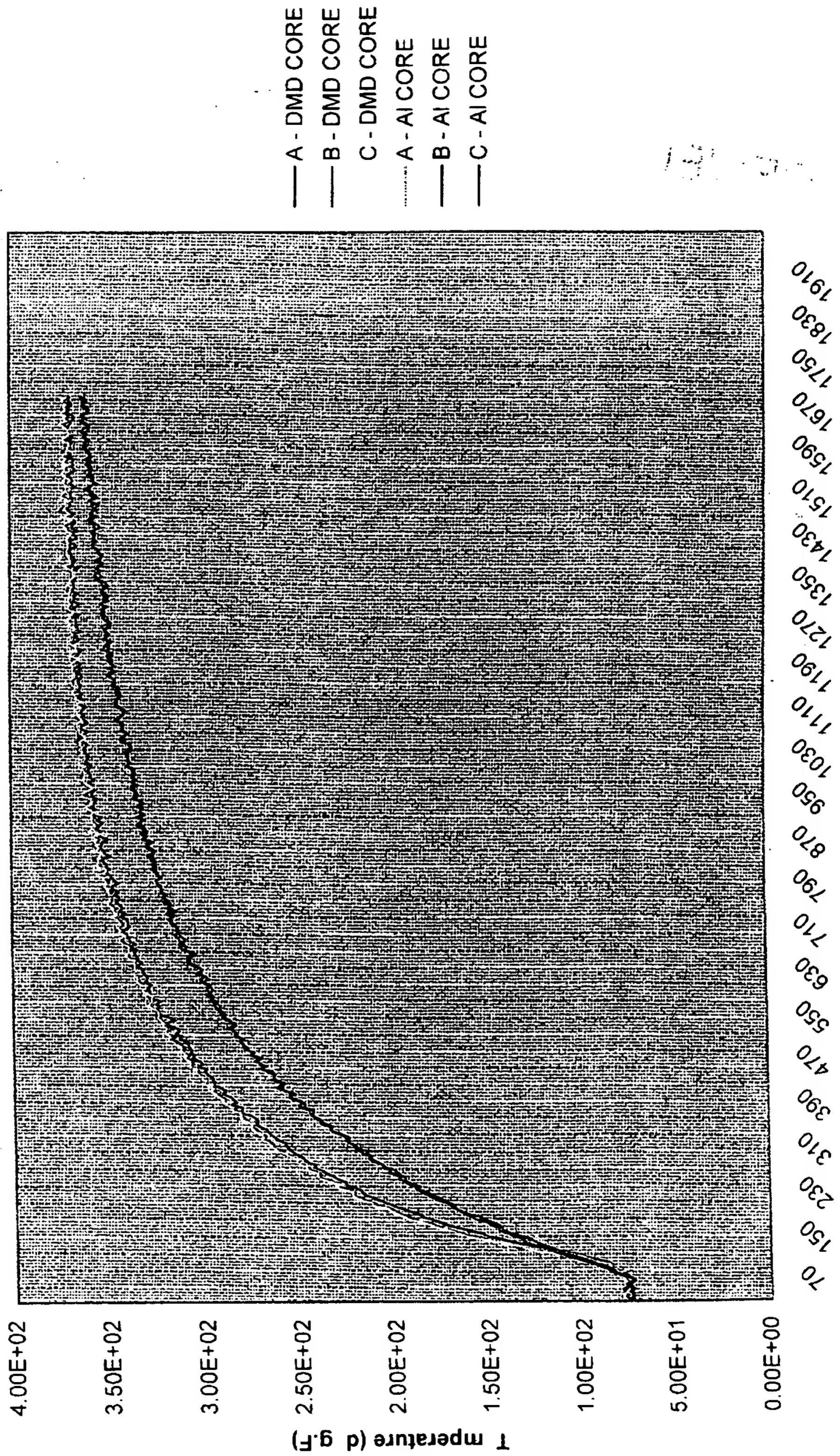


FIGURE 11

TEST 3-2 [DMD Light Wt.#1 vs. Aluminum]



Elapsed Time (sec.)

FIGURE 12

TEST 4-2 [DMD Light Wt.#2 vs. Aluminum]

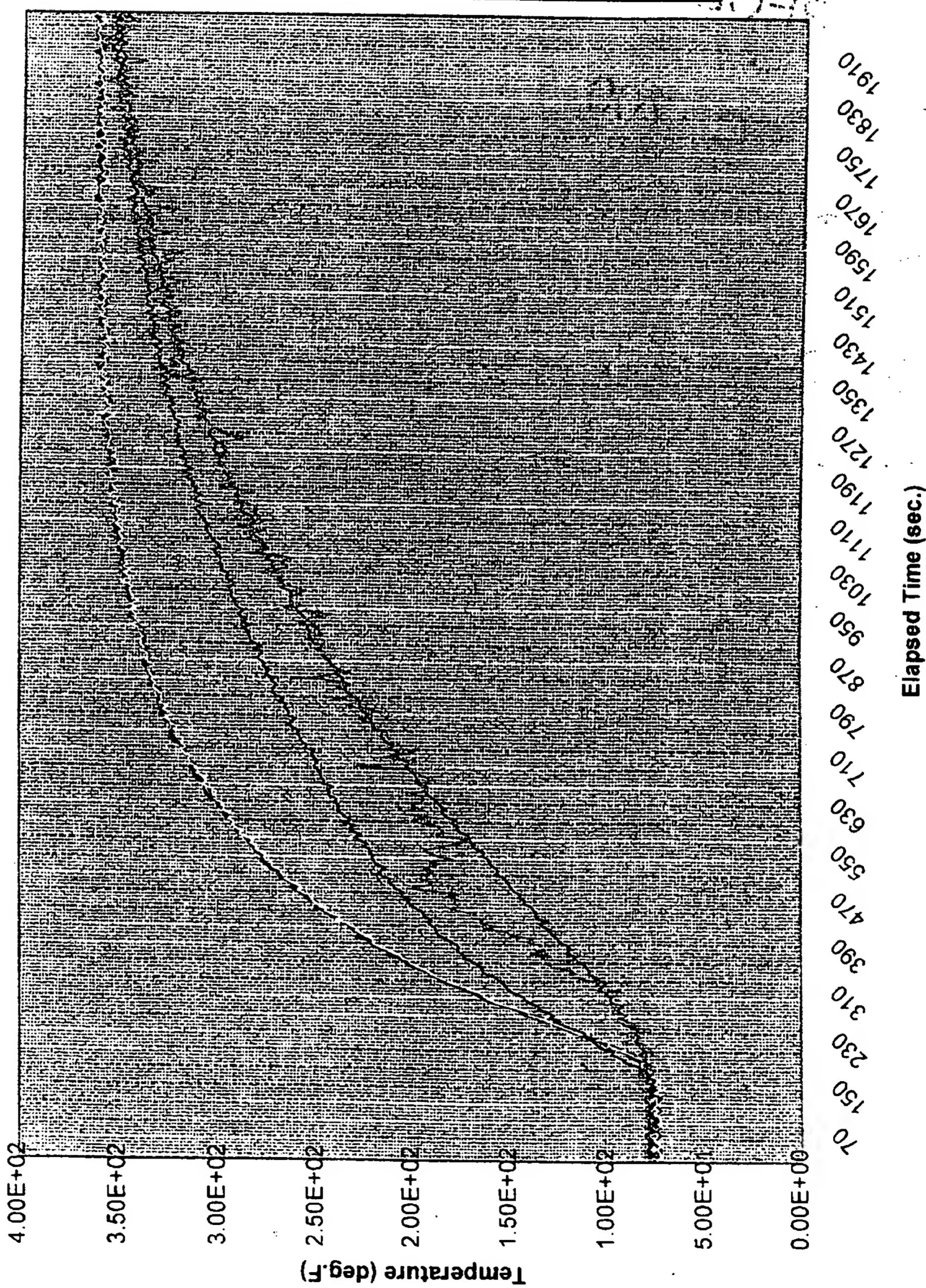


FIGURE 13

TEST 4-2 [DMD Light Wt.#2 vs. Aluminum]

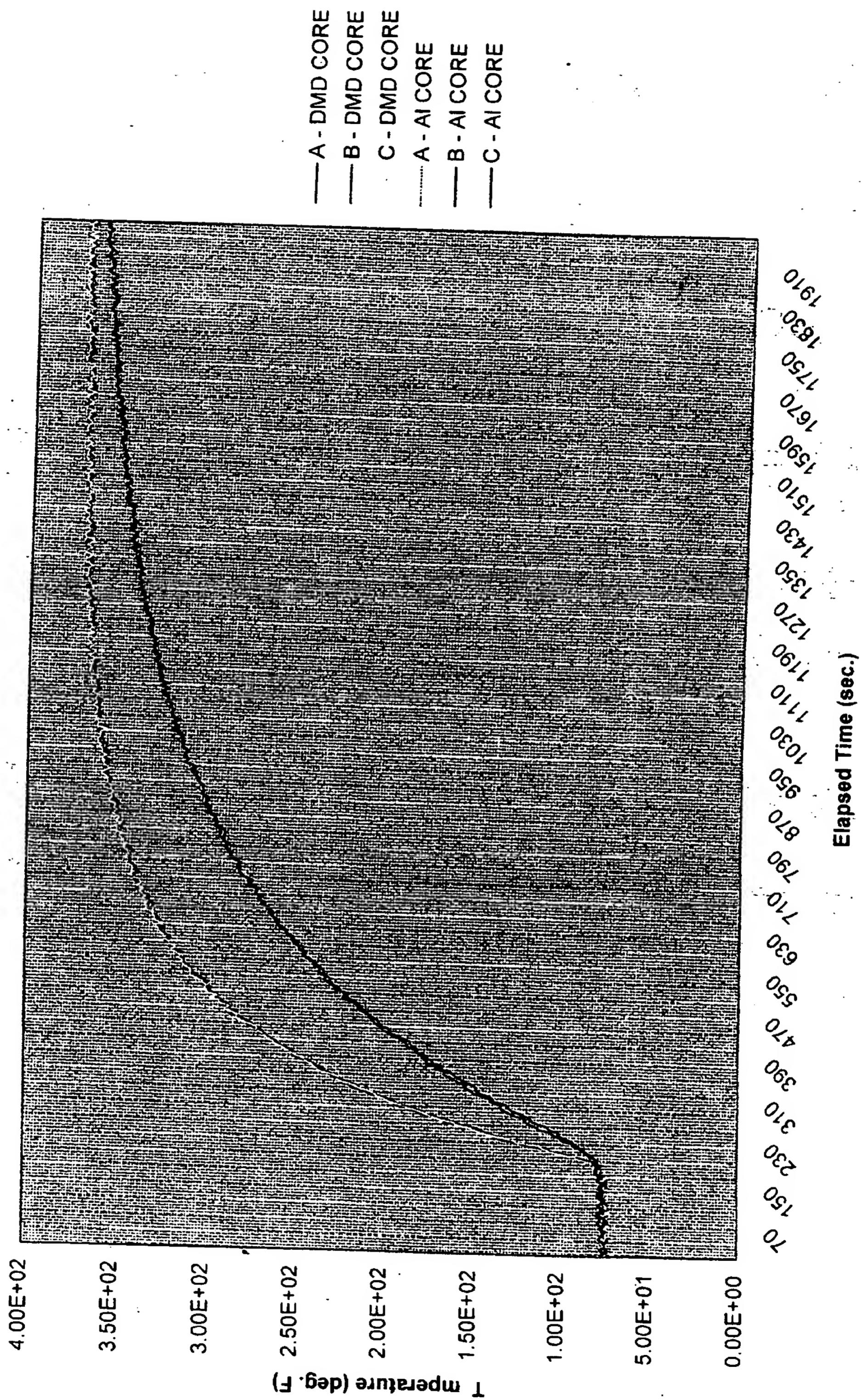


FIGURE 14